

# **LOCAL GROUNDWATER ASSISTANCE PROGRAM (AB 303) GRANT AWARDS FY 2000-2001**

APPLICANT	PROPOSAL DESCRIPTION	COUNTY	GRANT AMOUNT
Calaveras County Water District	The proposed project, which is included in their AB 3030 Plan, is a proposed groundwater monitoring and data collection program that will provide continuous water level, water quality data and additional hydrogeologic characterization of the basin. The main tasks they have listed are an annual groundwater assessment, a hydrogeologic assessment, program administration and public outreach.	Calaveras	\$241,180
Carpinteria Valley Water District	The applicant proposes two projects: (1) a wellhead protection demonstration program that would include an assessment of abandoned wells in the basin and destruction of five wells that severely threaten groundwater quality; and (2) a pilot Aquifer Storage Recovery (ASR) demonstration program, which would involve retrofitting an existing well, and pilot injection testing, which is expected to verify the potential for an ASR system. The goal of using an ASR in the basin is to store and recover as much as 500 acre-feet per year of excess system surface water.	Santa Barbara	\$250,000
Clovis, City of	The proposed project will include: (1) compile groundwater recharge basin site characteristics to increase recharge capabilities, (2) construct groundwater monitoring wells at recharge facilities to better monitor percolation and movement, and (3) create a Groundwater Information System (data management system) to provide a comprehensive and organized data base for improved groundwater data accessibility and maintenance.	Fresno	\$167,200
Consolidated Irrigation District	Consolidated Irrigation District proposes to upgrade monitoring wells throughout its District to improved the convenience and reliability of the water level measurements and provided the opportunity to obtain samples for analyzing water quality. The District hopes to replace approximately four monitoring wells per year using District funds, and to date, 12 of the 82 existing wells have been replaced. By securing a grant for monitoring well replacement, it is estimated that more than half of the remaining 70 wells could be replaced within the next few years.	Fresno Kings Tulare	\$200,000
Daly City, City of	This project would build upon existing and growing cooperative efforts to understand and manage the Westside Basin. Overall project goals include improvement of groundwater monitoring capabilities, especially near basin boundaries and the Pacific Ocean and San Francisco Bay; use of new and existing wells to conduct state-of-the-art water sampling and geochemical saltwater intrusion assessments; development and support of basinwide data storage and reporting procedures to streamline data dissemination and links with quantitative groundwater flow models; and a thorough review and testing of existing groundwater simulation tools, incorporating newly available data, test assumptions, and making revisions accordingly.	San Francisco, San Mateo	\$250,000
Eastern Kern County Resource Conservation District	The proposed project would provide a comprehensive review of the basin's groundwater quantity and quality. Groundwater is the sole source of water supply in Indian Wells, and there is a need to characterize the aquifer, compile and assess data from monitoring wells, and generally establish a framework of tools for the improvement of groundwater management in the valley. The applicant's plan is to have a consultant conduct the proposed overall assessment of local groundwater problems and opportunities through generation of a GIS system that would also assist with the implementation of the adopted groundwater management plan.	Kern	\$207,000
Elsinore Valley Municipal Water District	This project will develop and implement a centralized data management system for groundwater basin information; develop and implement a groundwater monitoring plan; fill known data gaps in the understanding of the basin structure and hydrogeologic conditions; update conceptual and numerical basin models for use in developing the Groundwater Management Plan in coordination with basin stakeholders.	Riverside	\$250,000
Glenn County	Exploration of the aquifer system in Glenn County is necessary to determine the extent, interconnectivity, recharge, and storage capacity of the aquifers underlying the county. The project involves the installation of 3 or 4 approximately 1000-foot-deep multi-completion wells with extensometers at the locations over the Stony Creek Fan and an undetermined number of shallow monitoring wells. The extensometers will be used to measure subsidence (if any) and the monitoring wells will be used to measure potentiometric heads in different aquifer zones.	Glenn	\$250,000
Inyo, County of	The primary goal of the Plan is to jointly manage groundwater pumping and surface water in the Owens Valley to avoid adverse changes to vegetation. The purpose of this project is to develop groundwater and vadose zone hydrologic models that can be used to evaluate the impact of groundwater pumping on groundwater levels and water availability for native vegetation. The results of this project will provide critically needed tools and information for the County and LADWP to determine how best to accomplish the goals of the Plan.	Inyo	\$250,000

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Lake County Flood Control and Water Conservation District	Numerous studies were completed in the 1960s to evaluate the feasibility of a reservoir, including the Big Valley Groundwater Recharge Investigation, March 1967. Aquifer conditions and use have changed since that Investigation was completed. Channel downcutting has reduced the storage capacity of the aquifer, and Kelsey Creek degraded up to 10 feet due to mining and channelization. Adobe Creek downcut as much as 6 feet as a result of the construction of Adobe and Highland Creek reservoirs and channelization to reduce flooding. Subsidence has occurred in the north central portion of the valley and may have altered the storage characteristics of the groundwater basin. Therefore, the current conditions may only be estimated based on professional judgment. The Investigation needs to be updated to allow for active management of the groundwater basin.	Lake	\$179,004
Marina Coast Water District	The proposed project is an attempt to fill information gaps and develop a management plan that will be coordinated with the well-established efforts for managing the upper and middle portions of the Salinas Basin as developed for the Salinas Valley Water Plan. The proposed project will identify all users and their use rates from the Salinas Basin deep aquifer, characterize the deep aquifer, identify its safe yield, including more accurate characterization of recharge rates, transmissivity, and connectivity to the middle and upper aquifers, and update the Salinas Valley Integrated Ground and Surface Water Model (SVIGSM) in order to address yield and seawater intrusion questions related to aquifer use.	Monterey	\$250,000
Metropolitan Water District of Southern California	The proposed project would carry out a feasibility study of the Upper Chuckwalla Valley to determine the potential to store surplus Colorado River Aqueduct (CRA) water during normal or wet years and return it to the CRA for delivery to southern California during dry years. The proposed project is expected to assist the State in implementing the Colorado River Water Use Plan. This Plan is being implemented by numerous public agencies, including DWR, in order to bring California within its basic entitlement of 4.4 million acre-feet per year from the Colorado River.	Riverside	\$250,000
Mojave Water Agency	MWA will update its 1994 Regional Water Management Plan to address changed local and regional water supply situations; refine its monitoring program; optimize the use of basin storage space, transmission capacity, and yield; study basinwide groundwater management scenarios, including conjunctive use opportunities; and compile available data into a GIS for use by stakeholders. The focus of the update will be to increase the availability and reliability of local ground and surface water sources, and examine the potential to increase availability of dry-year water supplies through regional conjunctive use efforts to accurately evaluate the long-term, safe yield of the groundwater basin water supply.	San Bernardino	\$250,000
Pajaro Valley Water Management Agency	Supplemental wells are an important component of several of the proposed variations of the proposed water supply project as indicated in the 2000 Draft of the updated Groundwater Management Plan. These wells are proposed as a source of blend water for the wastewater reclamation component, as a supplemental supply for the coastal distribution system, and as a supplemental supply to the import project during periods of shortage. Injection of Central Valley Project water is also being considered as part of the import project component. Injection well success depends on the quality of the water injected. The maintenance of wells at peak performance can be costly and time consuming. The injection water evaluation will include evaluation of two injection scenarios.	Santa Cruz Monterey	\$30,450
Root Creek Water District	The purpose of the proposed project is to develop a Geographic Information System (GIS) to help evaluate and store appropriate groundwater-relevant data, gather additional groundwater and water quality information in the Root Creek area, gain a better understanding of production zones in different aquifers, allow decision makers easier access to information for better management of resources, to store and manage data for the anticipated recharge projects in the District, and other pertinent data on water quality, wells, flows, and groundwater levels. In cooperation with local and State agencies, data would be gathered from the entire basin.	Madera	\$162,300
San Diego, City of, Helix Water District, Padre Dam Municipal Water District	San Diego, Helix, and Padre want to more efficiently manage their water resources by reevaluating their local supplies and preparing an assessment for conjunctive use of their surface water, groundwater, and recycled water resources. The goal of these agencies is to provide an implementation plan for management of the groundwater basins adjacent to the San Diego River System. The three local agencies have been meeting regularly for several years in an effort to determine the best method to proceed toward optimum management of the San Diego River System and its adjacent groundwater basins.	San Diego	\$250,000
San Joaquin County Flood Control and Water Conservation District	The proposed project is designed to specifically evaluate saline groundwater migration so that San Joaquin County Flood Control and Water Conservation District will be able to predict and measure the impacts of conjunctive use projects on the eastern San Joaquin Groundwater Basin. The proposed scope of work includes the expansion and enhancement of the existing groundwater monitoring network. This project will include a comprehensive hydrogeologic investigation, along with the installation of five cluster wells at or just west (upgradient) of the area's saline front that is migrating eastward.	San Joaquin	\$250,000

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Scotts Valley Water District	The proposed project has been designed to provide information for understanding hydrogeologic conditions in south Scotts Valley, which has been a major focus of concern for local water agencies and other stakeholders because it is an area of concentrated pumping by multiple entities and has experienced water level declines of as much as 150 feet in selected municipal wells. The proposed project consists of drilling, construction, and testing of three new monitoring wells. Evaluation of hydrogeologic, water level, and water quality data obtained from the study will be used for public education and stakeholder outreach and preparation of a final report.	Santa Cruz	\$250,000
Semitropic Water Storage District	The goal of the proposed project is to determine options available to treat problem groundwater and/or develop management strategies. Their objectives include: identify constituents of concern, examining methods of treatment to reduce concerns, develop operational strategies for greater well selection flexibility, and develop options to maximize use of its Stored Water Recovery Unit.	Kern	\$167,300
Shasta County Water Agency	The applicant proposes to assess various combinations of purveyor and basinwide actions and perform numerous runs of the Redding Basin Surface and Groundwater Model to assess the effectiveness of the proposed actions and their impacts on the groundwater basin in order to develop a solution to the predicted 2030 water deficits that may be as high as 73,100 acre-feet.	Shasta	\$134,066
Sierra Valley Groundwater Management District	The main goal of this project is to fill in data gaps for understanding the groundwater system in Sierra Valley. The specific objectives are 1) install a series of clustered monitoring wells to provide better information than is now available on subsurface hydrogeologic conditions to help determine water levels in the Southwest part of the Valley; 2) investigate and create new subsurface geologic cross sections to provide a more detailed conceptual understanding of major water producing zones and confining beds in key parts of the Valley; 3) install water level recorders to fully develop an understanding of when the shallowest and deepest water levels occurred in various wells in the valley during the past several decades and the extent of groundwater overdraft; and 4) conduct water sampling and analysis to update 20 years old information on groundwater quality and provide updated background information for evaluating new developments in the Valley.	Plumas Sierra	\$250,000
Tehama County Flood Control & Water Conservation District	The District proposes to conduct a Water Inventory and Analysis project in Tehama County to provide critical data to continue implementation of their adopted AB 3030 groundwater management plan. Ultimate implementation of the Districts adopted AB3030 Plan developed through sound foundation knowledge will serve as a guide toward establishing integrated basin management objectives and potential involvement with CALFED goals, while respecting third party impacts. The report will document relationship between surface water deliveries and the effect on groundwater demand and recharge.	Tehama	\$190,000
United Water Conservation District with the City of Oxnard	This project will determine the nature of the recent inland saline intrusion into the Oxnard Plain and Pleasant Valley basins and what can be done to control this water quality problem. Specifically, the project will determine the areal extent of the saline intrusion, whether high-saline water is restricted to certain depths within the aquifer, the potential sources of the salinity, and the potential mitigation for saline intrusion, including delivering unused water from the City of Oxnard reclamation plant to agricultural users and/or recharging the aquifer. The information obtained by the project will be used to update of the Regional Groundwater Model and to publish a final report detailing the results of the assessment of the water quality of treated reclaimed water.	Ventura	\$248,600
Westlands Water District	The District is searching for ways to increase their water supply, including potential conjunctive use opportunities. This project is to perform exploratory drilling to evaluate recharge potential along two creeks to increase the District's knowledge of the water bearing properties at the two sites. The plan is to drill, log and construct monitoring wells at 45 locations.	Fresno	\$72,900
<b>Total Awards</b>			<b>\$5,000,000</b>